

REMARKS

Claims 1 – 16 are pending in the present application. Claims 12 – 16 are withdrawn. Claims 1 – 11 stand rejected.

Applicants submit the following remarks in response to the Examiner's rejection. Applicants also submit a terminal disclaimer in response to the double patenting rejection.

Rejection under 35 U.S.C. §102 (b)

Claims 1-11 stand rejected under 35 U.S.C. §102(b) as anticipated by Peng et al (Polymer Preprints 2001, 42(2), page 527. (Please note that applicants submitted this reference in an IDS and refer to it using the name of the first inventor LUO). This rejection is respectfully traversed.

The present invention teaches a dendrimer. In contrast, the compound which is produced by Scheme 1 of Luo et al is not a dendrimer but a hyperbranched polymer. Luo describes the hyperbranched on page 527, at line 13 in the right column. Importantly, a dendrimer cannot be produced by the method described in Scheme 1 of Luo et al.

As specifically described in the present specification, a dendrimer is a polymer having a regularly arranged branching structure. And the term "dendrimer" does not encompass a hyperbranched polymer which has been synthesized through polymerization and which, as a result, has an irregularly arranged branching structure. (See for example, page 13, line 20 through page 15, line 12 of the present specification).

The fact that Luo et al does not describe or suggest producing a dendrimer is confirmed in the title of the reference itself. For example, the title of the Luo et al paper is "SYNTHESIS, LIGHT EMISSION AND OPTICAL LIMITING OF HYPERBRANCHED POLY[PHENYLENE-ALT-(2,5-THIENYLENE) S]." Therefore, the Luo reference cannot be considered as a primary reference.

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Finally, as described above, the dendrimer is a polymer having a regularly arranged branching structure. And a dendrimer exhibits remarkably higher carrier conductivity than that of a hyperbranched polymer. Therefore, the Luo reference fails and the rejection should be withdrawn.

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CONCLUSION

Based on the Amendments and Remarks above, Applicant respectfully requests allowance of all pending claims.

Respectfully submitted,
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